

FEDERAL PLANNING STANDARDS and Washington Department of Ecology Planning Standard Comparison

Compiled jointly by John Crawford and Roy Robertson

- ASSUMPTIONS:
- (1) persistent product
 - (2) largest vessel / facility
 - (3) for inland / near-shore environment <33 CFR 155, Tables 2, 5 and 6>
 - (4) Tier 1-2-3 columns reflect cap (maximum), i.e. the lesser of the cap or 15%, 25% or 40% of WCD (respectively)
 - (5) gross simplification, for quick and easy reference
 - (6) HVP=high volume port

REQUIRED BY / HOURS ⇌	01	02	06	12	18	24	30	36	48	54	60	72
USCG – HVP VESSELS	B - 02K R - 00 S - 00	B - 02K R - 50 S - 100		B - 30K R - 12.5K S - 25K				B - 30K R - 25K S - 50K			B - 30K R - 50K S - 100K	
USCG – NOT HVP VESSELS	B - 02K R - 00 S - 00	B - 02K R - 50 S - 100				B - 30K R - 12.5K S - 25K			B - 30K R - 25K S - 50K			B - 30K R - 50K S - 100K
USCG – HVP FACILITIES	B - 02K R - 00 S - 00	B - 02K R - 50 S - 100	B - 30K R - 12.5K S - 25K				B - 30K R - 25K S - 50K			B - 30K R - 50K S - 100K		
USCG – NOT HVP FACILITIES	B - 02K R - 00 S - 00	B - 02K R - 50 S - 100		B - 30K R - 12.5K S - 25K				B - 30K R - 25K S - 50K			B - 30K R - 50K S - 100K	
	THIS ONLY APPLIES AT AN OIL TRANSFER LOCATION ... (AMPD)		TIER 1 – RESPONSE = 15% OF WCD -- NOT TO EXCEED OPA-90 CAP				TIER 2 – RESPONSE = 25% OF WCD -- NOT TO EXCEED OPA-90 CAP			TIER 3 – RESPONSE = 40% OF WCD -- NOT TO EXCEED OPA-90 CAP		
Ecology – VESSELS Puget Sound – Zone 1		B - 4 X Vessel	B - 20 K R - 2%WCD or 12 K S - 1 X R	B - 40 K R - 5% WCD or 36 K S - 1.5 X R		B - As Required R - 12% WCD or 48 K S - 2 X R			B -As Required R - 17% WCD or 60 K S - 2 X R			B -As Required R - 20% WCD or 72 K S -As Required
Ecology – VESSELS Strait of Juan de Fuca - Zone 2, Grays Harbor/Willapa Bay Zone 4, and Columbia River Zone 5		B - 4 X Vessel	B - 10 K R - 2% WCD or 12 K S - 1 X R	C - 40 K R - 5% WCD or 36 K S - 1.5 X R		B - As Required R - 12% WCD or 48 K S - 2 X R			B -As Required R - 17% or 60 K S - 2 X R Zone 5 S - 3 X R Zones 2 & 4			B -As Required R - 20% WCD or 72 K S -As Required

REQUIRED BY / HOURS ⇄	01	02	06	12	18	24	30	36	48	54	60	72
Ecology - VESSELS Washington Coast Zone 3		Over flight Assessment	B – 4 X Vessel		B – 40 K R – 3% WCD or 36 K S – 1 X R	B – As Required R – 8% WCD or 48 K S – 2 X R			B –As Required R – 14% WCD or 60 K S – 3 X R			B –As Required R – 17% WCD or 72 K S –As Required
Ecology – Facilities Coastal Vessel Terminals	B – 4 X Vessel	Complete Deployment of Hour 1	R – 10% WCD or 12 K S – 12K for Non- Persistent S – 60 K for Persistent	B – 30 K for Persistent B – 10 K for Non- Persistent R – 15% WCD or 36 K S – 36K for Non- Persistent S – 180 K for Persistent		B – As Required for Protection R – 20% WCD or 48 K S – 48K for Non- Persistent S – 240 K for Persistent			B – As Required for Protection R – 25% WCD or 60 K S – 60 K for Non- Persistent S – 300 K for Persistent			
Ecology – Facilities River Vessel Terminals	B – 4 X Vessel	Complete Deployment of Hour 1	R – 10% WCD or 12 K S – 12K for Non- Persistent S – 60 K for Persistent	B – 35 K for Persistent B – 15 K for Non- Persistent R – 15% WCD or 36 K S – 36K for Non- Persistent S – 180 K for Persistent		B – As Required for Protection R – 20% WCD or 48 K S – 48K for Non- Persistent S – 240 K for Persistent			B – As Required for Protection R – 25% WCD or 60 K S – 60 K for Non- Persistent S – 300 K for Persistent			
Ecology – Facilities Oil Transmission Pipelines	Determine d on case- by-case basis		R – 10% WCD or 12 K S – 12K for Non- Persistent S – 60 K for Persistent	B – 15 K for Persistent B – 10 K for Non- Persistent R – 15% WCD or 36 K S – 36K for Non- Persistent S – 180 K for Persistent		B – As Required for Protection R – 20% WCD or 48 K S – 48K for Non- Persistent S – 240 K for Persistent			B – As Required for Protection R – 25% WCD or 60 K S – 60 K for Non- Persistent S – 300 K for Persistent			

REQUIRED BY / HOURS ⇄	01	02	06	12	18	24	30	36	48	54	60	72
Ecology – Facilities Pipeline Tank Farm	R - .1 % of WCS		R – 10% WCD or 12 K S – 12K for Non-Persis- tent S – 60 K for Persistent	R – 15% WCD or 36 K S – 36K for Non- Persistent S – 180 K for Persistent		R – 20% WCD or 48 K S – 48K for Non- Persistent S – 240 K for Persistent			R – 25% WCD or 60 K S – 60 K for Non- Persistent S – 300 K for Persistent			

LEGEND:

- B** – BOOM (FEET REQUIRED)
 AMPD (only) = two times length of largest vessel involved in transfer operation
- R** – RECOVERY (BPD / EDRC)
 BPD = Barrels Per Day
 EDRC = Efficiency Derated Recovery Capability
- S** – STORAGE (BARRELS)

- AMPD** – AVERAGE MOST PROBABLE DISCHARGE
- HVP** – HIGH VOLUME PORT (Valdez, Puget Sound, SFO, LA / LB)
- K** – THOUSAND
- NS** – NOT SPECIFIED (QUANTIFIED)
- WCD** – WORST CASE DISCHARGE